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DATE MAILED: 02/09/2005

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/848,820	05/03/2001	Vladimir Matena	SUN1P294/P5175 7908 EXAMINER	
22434	7590 02/09/2005			
BEYER WEAVER & THOMAS LLP			CAO, DIEM K	
P.O. BOX 70250 OAKLAND, CA 94612-0250			ART UNIT	PAPER NUMBER
•			2126	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/848,820	MATENA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Diem K Cao	2126				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
 1) Responsive to communication(s) filed on <u>07 September 2004</u>. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 						
Disposition of Claims						
4) ☐ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on <u>07 September 2004</u> is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	are: a) accepted or b) objected or b) objected are are accepted in abeyance. See ion is required if the drawing(s) is objected.	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	(PTO-413) ate Patent Application (PTO-152)				

DETAILED ACTION

1. Claims 1-20 remain in the application. The Applicant has amended claims 8 and 18.

Drawings

2. The drawings were received on 9/7/2004. These drawings are accepted by the examiner.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-5, 7-15, and 17-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Raj (Enterprise JavaBeans) in view of Jain et al. (Java Call Control, Coordination and Transaction).
- As to claim 1, Raj teaches an entity bean class (implementing the enterprise bean; part 5, page 1), a home interface associated with the entity bean class (the EJB home interface; part 5, pages 1-2), the home interface being arranged to create, find, and remove entity objects (the home interface has methods that define how the entity bean is crated and located in its container; part 5, pages 1-2, section "Define your EJB Home Interface" and methods for locating, creating, and removing instances of EJB classes are defined in the home interface; part 2, page 2, section

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"the Home Interface and Home Object"), a remote interface associated with the entity bean class (remote interface ... instances of BooksBean; part 5, page 2, section "Define Your EJB Remote Interface"), the remote interface being arranged to change the state of the bean in response to the input events (The remote interface lists the business methods available for the enterprise bean; part 2, page 2, section "The Remote Interface and EJB Object"), and an entity object associated with the entity bean class (bean instances; part 2, page 2, section "EJB Containers").

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- However, Raj does not teach the remote interface being arranged to driver the state 6. machine, and the entity object being arranged to represent an individual state machine, i.e. the state machine is implemented as an entity object. Examiner notes that implement finite state machine as software object is well known and already implemented in the computer art. Jain teaches a finite state machine is implemented as a Java object, the state of the call can be manipulated only by the accessor methods (The state of a telephone call ... specification; page 110, right column, first paragraph and The state of a call ... to the application; page 110, right column, second paragraph), change in state in response to Java exception and events (The state of a call ... to the application; page 110, right column, second paragraph), and could be implemented using Enterprise Java Bean (Trusted application ... EJB sense, page 112, left column, third paragraph).
- 7. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Raj and Jain because implementing state machine in Java providing benefit to the users because Java language is portable platforms and Java based

technology can be used in the telecommunications services (page 109, left column, first paragraph).

- 8. **As to claim 2**, Raj teaches the entity bean class, the entity object, the home interface, and the remote interface are parts of an entity bean (EJB remote interface, EJB home interface, EJB class; part 5, page 1 and bean instances; part 2, page 2, section "EJB Containers").
- 9. **As to claim 3**, Raj teaches the entity bean is an enterprise bean (Enterprise beans ... entity beans; part 3, section Entity and Session Beans, page 3).
- 10. As to claim 4, Raj teaches the enterprise bean is an Enterprise JavaBean (The Enterprise JavaBean; part 2, section "The Enterprise JavaBean").
- 11. As to claim 5, Raj teaches the entity bean is arrange to be deployed in a bean container that is arranged to invoke instances of the entity bean class in response to invocations to the methods of the remote interface (The EJB container manages one or more EJB classes ... invoke the bean's methods; part 2, page 2, section "EJB Containers").
- 12. **As to claim 7**, Raj as modified teaches the entity bean uses container-managed persistence to maintain a state associated with the state machine (Container-managed persistence; part 3, page 4, section "Entity Beans").

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13. As to claim 8, Raj as modified teaches the entity bean uses bean-managed persistence to maintain a state associated with the state machine (Bean-managed persistence; part 3, page 4, section "Entity Beans").

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- 14. As to claim 9, Raj teaches the bean container is arranged to receive input events to the entity bean and to dispatch the received input events to the methods of the remote interface (An EJB container acts as ... invoke the bean's methods; part 2, page 2, section "EJB Container").
- 15. As to claim 10, Raj as modified teaches the remote interface is arranged to define a method for an input event to which the state machine responds (The remote interface lists the business methods available for the enterprise bean; part 2, page 2, section "The Remote Interface and EJB Object").
- 16. As to method claim 11, it corresponds to the state machine claim of claim 1.
- 17. As to claims 12-15, see rejections of claims 2-5 above.
- 18. As to claims 17-20, see rejections of claims 7-10 above.
- 19. Claims 6 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Raj (Enterprise JavaBeans) in view of Jain et al. (Java Call Control, Coordination and Transaction) further in view of Shoffner (Write a session EJB).

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As to claims 6 and 16, Raj does not explicitly teach the bean container is further arranged to implement a timeout. Shoffner teaches the bean container is further arranged to implement a timeout (the container ... after some timeout period; page 7). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Raj, Jain and Shoffner because it provides a method for container to remove the beans after a period of time without being used.

Response to Arguments

21. Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Diem K Cao whose telephone number is (571) 272-3760. The examiner can normally be reached on Monday - Thursday, 8:00AM - 3:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Diem Cao

MENG-AL T. AN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100